

NORTH
COAST
AMATEUR
RADIO
CLUB

NORTH COAST COMMUNICATOR

SEPTEMBER, 1983

no. 2 vol. 1

c/o N8ETY

3717 Woodway
Parma Oh 44134

MEETING NOTICE!!!!!!

THE NEXT GENERAL MEETING OF N.C.A.R.C. WILL BE HELD SUNDAY OCT. 16TH AT 1500 HRS EASTERN (3:00 P.M.).

LOCATION: MESA GRANDE PARTY CENTER
1739 EL DORADO BLVD.
BRUNSWICK, OHIO

(SEE ATTACHED MAP)

(CHARTER MEMBERS - REMEMBER YOUR MEETING ONE HOUR PRIOR!!!)

N.C.A.R.C. WELCOMES THE FOLLOWING NEW MEMBERS SINCE JULY 17TH ROSTER:

N8BYW - BUD	N8EBA - RUSS	N8ETQ - DAN	N8ETW - ERNIE
N8ETZ - MARY ANN	W3IGI - BILL	KABIMU - TONY	KD8JQ - DON
KV8M - TOM	WB8OGN - JACK	K8RBV - BOB	

THE CLEVELAND HAMFEST WILL BE HELD ON SUNDAY SEPT 25TH FROM 0800 HRS TO 1700 HRS EASTERN. THIS YEAR, IT IS BEING HELD AT A NEW LOCATION. THE CLEVELAND AVIATION HIGH SCHOOL, WHICH IS ON NORTH MARGINAL RD. JUST EAST OF BURKE LAKEFRONT AIRPORT.

MOBILE CHECK-IN ON 52, W8VQ - TICKETS \$3 - CHILDREN UNDER 12 FREE

N.C.A.R.C. WILL HAVE A BOOTH SET UP TO PROMOTE THE CLUB AND ITS ACTIVITIES. WE WILL ALSO HAVE A FLEA MARKET BOOTH IF YOU HAVE ANY OLD GEAR THAT IS JUST COLLECTING DUST AND WOULD LIKE TO GET IT OUT OF THE WAY. WHY NOT DONATE IT TO THE CLUB, ALL PROCEEDS GO TO THE CLUB TREASURY.

THE NEXT NORTH AMERICAN TELECONFERENCE NET, WHICH IS SPONSORED BY THE HONEYWELL A.R.C. WILL BE ON DECEMBER 1, 1983. THE NET WILL FEATURE AS ITS SPEAKER "RIP" RIPORELLA (WA2LQQ) PRESIDENT-ELECT OF AMSAT. THE NET IS SCHEDULED TO BE ON THE "LEARA" 146.760 REPEATER.

EVENTS

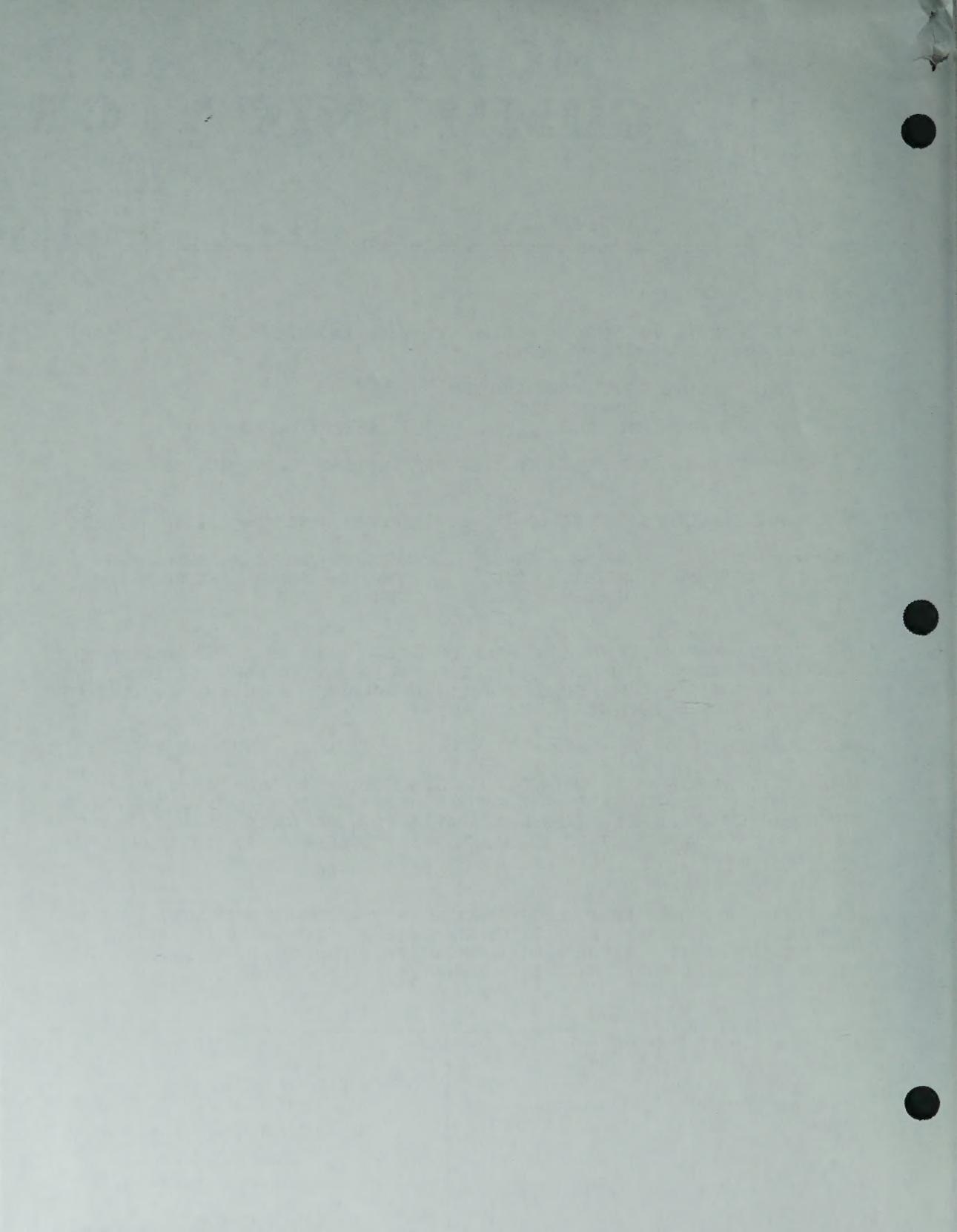
CLEVELAND HAMFEST
SUNDAY SEPT. 25th
8:00am - 5:00pm
See Page 2

...AND OF COURSE THE CLUB PICNIC...

NOTE
NEW LOCATION

etc...

HERE COMES THE BRIDE...
BUT WHY IS HER FUTURE HUSBAND SAYIN
CQ CQ INSTEAD OF I DO I DO ???
CONGRATULATIONS
TO CLYDE WB8YNX & EDNA ON THEIR
ENGAGEMENT



IF YOU ARE INTERESTED IN OBTAINING AMATUER RADIO CALL LETTER LICENSE PLATES FOR YOUR AUTOMOBILE, THE FOLLOWING INFORMATION IS FOR YOU.

AMATUER RADIO CALL LETTER LICENSE PLATES ARE ONLY AVAILABLE ON VEHICLES OWNED BT THE AMATEUR RADIO OPERATOR DIRECTLY.

THE BUREAU OF MOTOR VEHICLES (STATE OF OHIO) REQUESTS THAT YOU WRITE TO THEM FOUR MONTHS PRIOR TO YOUR CURRENT PLATES EXPIRATION DATE, IN ORDER TO PROCESS YOUR REQUEST IN TIME.

BE SURE TO STATE THAT YOU ARE REQUESTING AMATEUR RADIO CALL LETTER PLATES, AND INCLUDE A COPY OF YOUR HAM LICENSE. SEND THE ABOVE TO:

STATE OF OHIO
BUREAU OF MOTOR VEHICLES
RESERVE PLATES
PO BOX 16520
COLUMBUS, OHIO 43216
TELEPHONE NUMBER: 614-863-7800

DO NOT SEND ANY MONEY - THEY WILL SEND BACK THE NECESSARY FORMS TO BE PROCESSED AT THE LOCAL AREA LICENSE PLATE OFFICE.

TOTAL COST SHOULD BE \$30.75 PER YEAR.

NORTH COAST Swap&Shop

THIS IS A FREE SERVICE FOR ANYONE WHO WISHES TO USE IT. SEND IN A BRIEF WRITTEN DESCRIPTION OF YOU ITEM(S). ***NO PRICES WILL BE LISTED*** ITEMS WILL BE LISTED IN THE NEXT NEWSLETTER. IF YOU WISH THE LISTING TO CONTINUE, PLEASE CONTACT N8ETY.

FOR SALE BY KD8EQ - DICK: ICOM 730 80-10M W/SSB FILTER
ICOM 510 6M ALL MODE
ICOM POWER SUPPLY - PS 15
6M RINGO
VALOR PHF 40-20-15M MOBILE WHIPS
TBR 160 HD 160M COIL FOR BUTTERNUT VERTICAL

FOR SALE BY KV8M - TOM: HEATHKIT HW101 w/ CW FILTER, POWER SUPPLY & SPEAKER
WILL CONSIDER SWAP FOR VHF or UHF GEAR

238-6150

145.15

145.29 (If he gets the crystals)

THE SPACE SHUTTLE COLUMBIA IS SCHEDULED FOR LIFT-OFF ON OCT 28, 1983. AS YOU ARE PROBABLY AWARE, ON BOARD WILL BE DR. OWEN GARRIOTT, W5LFL AND HIS CUSTOM MADE 2 METER H.T..

HERE IS SOME COMBINED INFORMATION GATHERED TOGETHER AT PRESS TIME: STARTING ON DAY 3 OF THE MISSION, DURING FREE TIME, DR. GARRIOTT WILL NOTIFY HOUSTON SHORTLY BEFORE STARTING HIS 2 METER EXERCIES. BEGINNING ON THE EVEN MINUTE, HE WILL CALL FOR SPECIFIC AREAS OR CALL DISTRICTS. HE WILL THEN LISTEN FOR ONE MINUTE (DURING THE ODD MINUTES) LOGGING ALL THE CALLS HE HEARD AND THEN ACKNOWLEDGING THOSE ON HIS NEXT TRANSMISSION (NEXT EVEN MINUTE).

MOST OF THE U.S. AREAS ARE EXPECTED TO BE COVERED DURING OUR DAYLIGHT HOURS. THE POSSIBLE BEST CHANCE FOR THIS AREA IS ON THE 80TH ORBIT WHICH WILL BE DURING DAY 4 OF THE MISSION, AT 8:30 A.M. EASTERN TIME IF LIFT-OFF GOES ON SCHEDULE. THAT MAKE SUNDAY THE DAY TO BE AWAKE EARLY!!!

ALSO, W5LFL WILL BE ONLY "HAMMING" ONE HOUR PER DAY. THE ESTIMATED TOTAL QSO'S FOR THE ENTIRE MISSION IS AROUND 500.

FREQ. - SPACE TO EARTH: 145.250, 145.530, 145.550 (PRIMARY), AND 145.570

FREQ. - EARTH TO SPACE: 144.650, 144.700, 144.725, 144.750, 144.775, 144.800, 144.825, 144.850, 144.910, 144.930, 144.950, 144.970, 144.990, 145.010, 145.030, 145.050, 145.070, 145.090, 145.350, 145.450.

FOR THOSE WITH SCANNERS, REPORTS SAY THAT A SCANNER WITH A INDOOR ANTENNA HAS A CHANCE TO HEAR THE SHUTTLE.

FOR MORE UPDATED INFORMATION, WE SUGGEST YOU CHECK WITH THE FOLLOWING:

1. W1AW BULLETIN'S (SCHEDULE ON LAST PAGE)
2. WESTLINK NET - SUNDAYS - 1000 HRS EASTERN - 40M AT 7.238 MHZ - YOU CAN TELEPHONE WESTLINK AT (213) 465-5550
3. AMSAT NET - TUESDAYS - 2100 HRS EASTERN - 75M AT 3.850 MHZ

ALL OF THE ABOVE INFORMATION COMPILED FROM: CQ MAGAZINE 8/83, QST 8/83, WORLD RADIO 8/83, 73 MAGAZINE 9/83, QST 9/83, NORTH AMERICAN TELECONFERENCE NET 9/01/83.

N.C.A.R.C. HAS BEEN IN COMMUNICATION WITH THE A.R.R.L. AND WILL BE RECEIVING TWO VIDEO TAPES OF "AMATEUR RADIO'S NEWEST FRONTIER". THIS PROGRAM DEALS WITH OWEN GARRIOTT'S (W5LFL) DEVELOPMENT IN HIS YOUNGER YEARS WITH AMATEUR RADIO PLAYING AN IMPORTANT PART. A SPECIAL 6 MINUTES OF THE PROGRAM AT THE END DEALS DIRECTLY WITH OWENS PLANS ON THE USE OF AMATEUR RADIO ON THE SPACE SHUTTLE STS-9 (OCT 28TH).

ONE OF THE VIDEO TAPES (VHS) WILL BE USED IN SEVERAL PRESENTATIONS AT NON-AMATEUR MEETINGS TO PROMOTE MORE INTEREST IN OUR HOBBY WITH YOUTH GROUPS. ONE OF THE PRESENTATIONS WILL BE MADE OCT 17TH AT THE AMERICAN LEGION POST 610 WHERE A COMBINED EFFORT WILL BRING OVER 100 YOUNGSTERS FROM AMERICAN LEGION'S YOUTH GROUP AND SOME ADDITIONAL BOY SCOUTS FROM THAT AREA. NORTH COAST WILL ALSO BE MAKING A PRESENTATION OF THIS TO THE CATHOLIC YOUTH ORGANIZATION (CYO) ON OCT 10TH AT E. 61ST AND GLASS AVE FOR MANY YOUTHS FROM THE 8TH GRADE UP.

THE OTHER VIDEO TAPE (3/4 U-MATIC) WILL BE PROVIDED TO VARIOUS LOCAL CABLE TV COMPANIES WHO HAVE EXPRESSED RECEIVING THIS 24 MINUTE PRODUCTION. NORTH COAST IS ALSO IN COMMUNICATION WITH WVIZ-TV PBS IN CLEVELAND (CHANNEL 25) AND THEY HAVE EXPRESSED CONSIDERABLE INTEREST IN THE PROGRAM. THERE IS A STRONG POSSIBILITY THAT WVIZ-TV WILL AIR THE PROGRAM SEVERAL TIMES DURING THE MONTH OF OCTOBER.

TECH CORNER

THIS MONTH I RECEIVED 2 ITEMS TO PASS ALONG. IF YOU HAVE ANY QUESTIONS REGARDING THE IDEAS OR PROJECTS DISCUSSED HERE, PLEASE CONTACT THE AUTHOR DIRECTLY.

FROM BOB-K8TTZ:

DO YOU HAVE A "CANTENNA" STYLE DUMMY LOAD? CHECK IT FOR LEAKS. DUE TO THE FACT THAT THERE IS OIL INSIDE, THEY HAVE A TENDENCY TO RUST FROM THE OUTSIDE IN,(AND DO IT QUITE SNEAKINGLY). ALL OF A SUDDEN ONE DAY YOU MIGHT WAKE UP TO A "OILED FLOOR. (ED. NOTE: BOB FOUND OUT THE HARD WAY.)

SOLUTION:

FIND A ONE GALLON PAINT CAN, PREFERABLY CLEAN, IF NOT CLEAN IT UP. PAINT THE CAN INSIDE AND OUT WITH A "RUST INHIBITIVE" TYPE OF PAINT. AND YOUR READY TO GO.

FROM TOM-KV8M:

HERE IS A GREAT HOMEBREW "RTTY" INTERFACE.(ED. NOTE) THIS CIRCUIT WORKS BOTH MARK AND SPACE. NOT JUST MARK LIKE THE LESS EXPENSIVE COMMERCIAL UNITS. IF YOU STUDY THE CIRCUIT, YOU'LL SEE THAT THIS IS A GREAT APPROACH TO INTERFACING "RTTY" TO A COMPUTER.

CIRCUIT DESCRIPTION

AUDIO FROM THE RECEIVER SPEAKER OR HEADPHONE JACK IS FED TO THE INPUT OF U1. U1 AMPLIFIES AND CLIPS THE SIGNAL TO A PREDETERMINED LEVEL. THE 330 OHM RESISTOR ON THE OUTPUT OF U1 (PIN6), CAN BE CHANGED TO ADJUST THE AMOUNT OF LIMITING DEPENDING ON YOUR NEEDS. DECREASING THE VALUE OF THE RESISTOR WILL CAUSE LIMITING TO OCCUR SOONER.

THE OUTPUT OF U1 DRIVES THE ACTIVE FILTERS (U2 & U3) FOR SEPARATION OF MARK & SPACE TONES. THE FULL WAVE BRIDGE CIRCUIT RECTIFIES THOSE TONES. THE TONES ARE THEN RECOMBINED IN U4, WHICH ACTS AS A SLICER CIRCUIT. THE OUTPUT OF U4 IS EITHER SPACE (POSITIVE GOING) OR MARK (NEGATIVE GOING) WHICH WILL CORRESPOND TO THE TONE FROM YOUR RECEIVER.

THE ENVELOPE DETECTOR CIRCUIT WILL SMOOTH OUT THE TONES, AND ITS OUTPUT WILL BE A ON-OFF D.C. LEVEL. THESE D.C. VOLTAGES WILL NOT BE COMPATIBLE WITH YOUR COMPUTER. THE 7414 HEX SCHMIDT TRIGGER WILL BRING THESE VOLTAGES UP TO A TTL LEVEL.

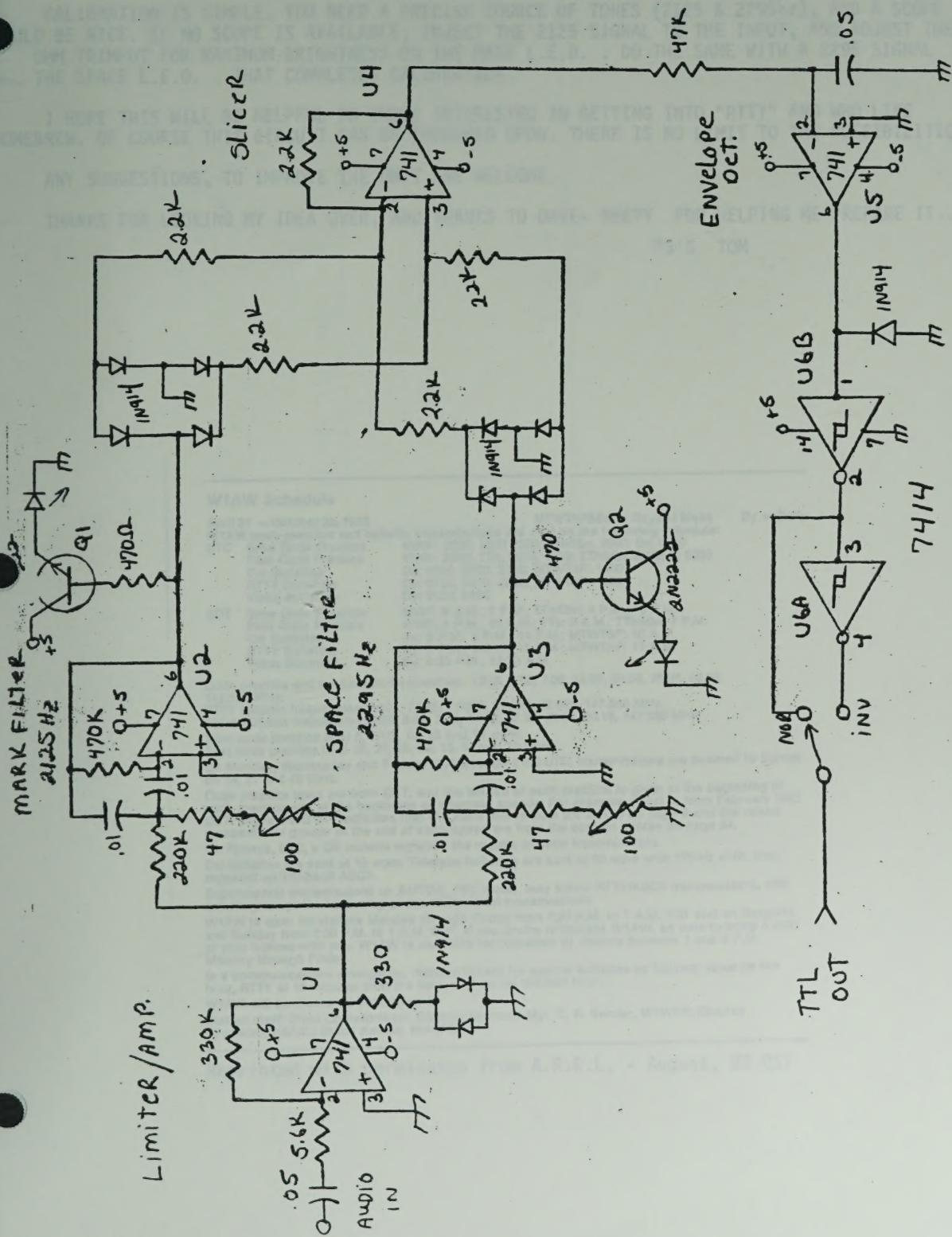
CONSTRUCTION

BUILDING THE DEMODULATOR IS STRAIGHT FORWARD, AND PARTS LAY-OUT IS NOT CRITICAL, SO USE YOUR IMAGINATION.

THERE ARE A FEW POINTS WOTH MENTIONING. FIRST, BE SURE TO USE TEMPERTURE STABLE CAPACITORS (MYLAR, POLYSTRENE, OR TANDALUM) IN THE FEEDBACK CIRCUIT OF THE ACTIVE FILTERS, OTHERWISE YOU WILL BE RE-TUNING ALL THE TIME.

THOSE WHO WILL BE USING THIS DE-MOD. WITH CERTAIN SOFTWARE PROGRAMS MAY BE REQUIRED TO INVERT THE DATA AGAIN BEFORE GOING INTO THE COMPUTER. THIS WILL ALSO ADD ADDITIONAL BUFFERING, WHICH CAN NEVER DO ANY HARM. THERE ARE A FEW INVERTER CIRCUITS LEFT IN THE 7414, SO EXPERIMENT.

ONE LAST POINT, DON'T FORGET TO INCLUDE BYPASS CAPS.(.1mfd OR BETTER), TO THE +5 & -5 T SUPPLY LINES.



CALIBRATION

CALIBRATION IS SIMPLE. YOU NEED A PRECISE SOURCE OF TONES (2125 & 2295hz), AND A SCOPE WOULD BE NICE. IF NO SCOPE IS AVAILABLE, INJECT THE 2125 SIGNAL TO THE INPUT, AND ADJUST THE 1 OHM TRIMPOT FOR MAXIMUM BRIGHTNESS ON THE MARK L.E.D. . DO THE SAME WITH A 2295 SIGNAL AND THE SPACE L.E.D. . THAT COMPLETES CALIBRATION.

I HOPE THIS WILL BE HELPFUL TO THOSE INTERESTED IN GETTING INTO "RTTY" AND WHO LIKE HOMEBREW. OF COURSE THIS CIRCUIT CAN BE IMPROVED UPON. THERE IS NO LIMIT TO THE POSSIBILITIES.

ANY SUGGESTIONS, TO IMPROVE THE UNIT ARE WELCOME.

THANKS FOR LOOKING MY IDEA OVER, AND THANKS TO DAVE- N8ETY FOR HELPING ME PREPARE IT...

73'S TOM

W1AW Schedule

April 24 — October 30, 1983

W1AW code practice and bulletin transmissions are sent on the following schedule:

	MTWThFSSn = Days of Week	Dy = Daily
UTC	MWF: 0200, 1300 2300; TThSSn: 2000; Sn: 0200	
Slow Code Practice	MWF: 2000; TTh: 0200, 1300; TThSSn: 2300; S: 0200	
Fast Code Practice	MWF: 0000, 0300, 2100; MTWThF: 1400	
Cw Bulletins	Dy: 0000, 0300, 2100; MTWThF: 1400	
RTTY Bulletins	Dy: 0100, 0400, 2200; MTWThF: 1500	
Voice Bulletins	Dy: 0130, 0430	
EDT	MWF: 9 A.M., 7 P.M.; TThSSn: 4 P.M., 10 P.M.	
Slow Code Practice	MWF: 4 P.M., 10 P.M.; TTh: 9 A.M.; TThSSn: 7 P.M.	
Fast Code Practice	Dy: 5 P.M., 8 P.M., 11 P.M.; MTWThF: 10 A.M.	
Cw Bulletins	Dy: 6 P.M., 9 P.M., 12 P.M.; MTWThF: 11 A.M.	
RTTY Bulletins	Dy: 9:30 P.M., 12:30 A.M.	
Voice Bulletins		

Code practice and cw bulletin frequencies: 1.818, 3.58, 7.08, 14.07, 21.08, 28.08, 50.08, 147.555 MHz.

RTTY bulletin frequencies: 3.625, 7.095, 14.095, 21.095, 28.095, 147.555 MHz.

Voice bulletin frequencies: 1.89, 3.99, 7.29, 14.29, 21.39, 28.59, 50.19, 147.555 MHz.

Slow code practice is at 5, 7-1/2, 10, 13 and 15 wpm.

Fast code practice is at 35, 30, 25, 20, 15, 13 and 10 wpm.

On Monday, Wednesday and Friday, 1300 through 2100 UTC, transmissions are beamed to Europe on 14, 21 and 28 MHz.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds. For example, "Text is from February 1983 QST, pages 9 and 84" indicates that the main text is from the article on page 9 and the mixed number/letter groups at the end of each speed are from the contest scores on page 84.

On Fridays, UTC, a DX bulletin replaces the regular bulletin transmissions.

Cw bulletins are sent at 18 wpm; Teletype bulletins are sent at 60 wpm with 170-Hz shift, then repeated on 110-baud ASCII.

Experimental transmissions on AMTOR, FEC mode, may follow RTTY/ASCII transmissions, with details given at the beginning of the RTTY/ASCII transmissions.

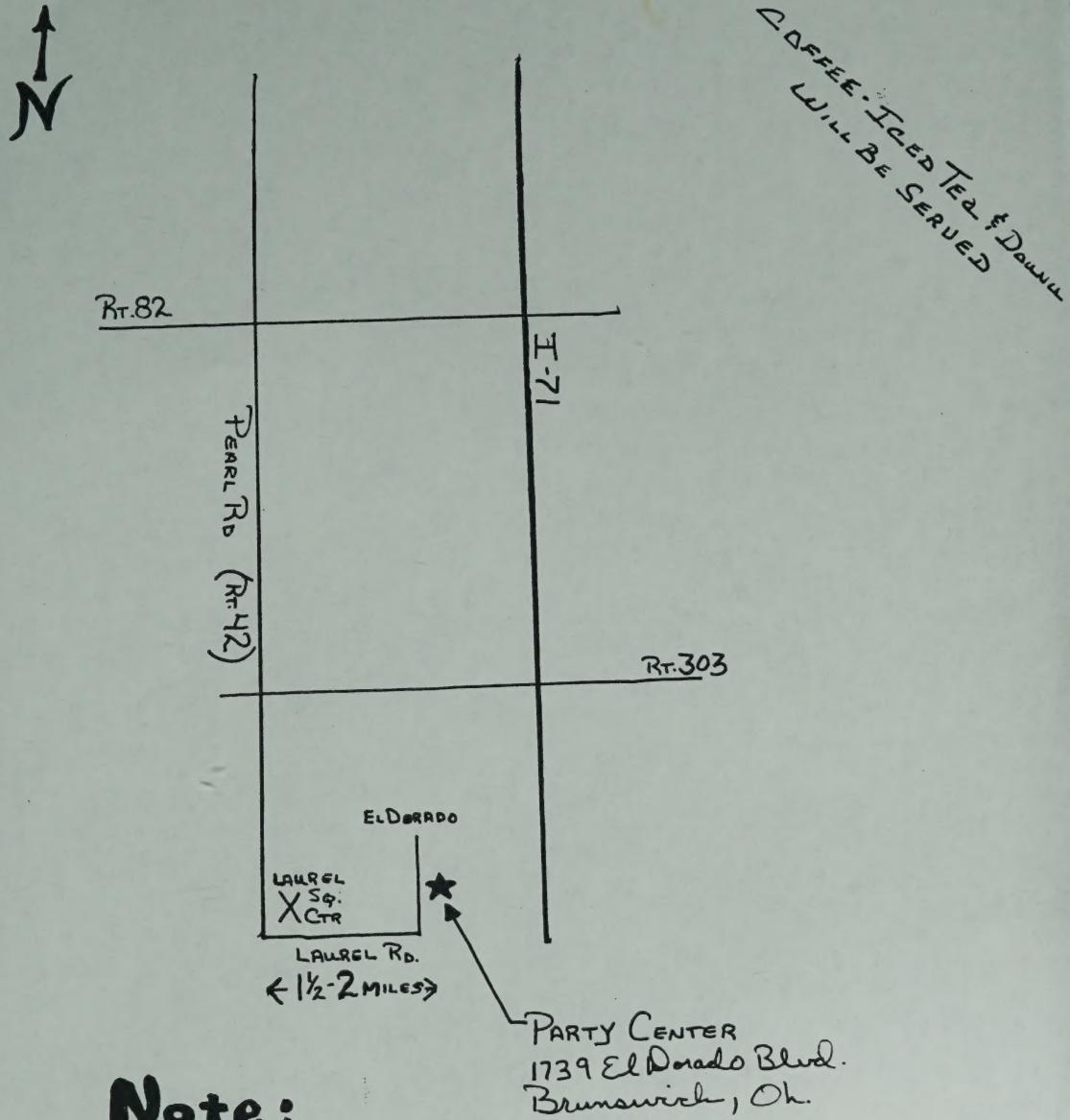
W1AW is open for visitors Monday through Friday from 7:30 A.M. to 1 A.M. EDT and on Saturday and Sunday from 3:30 P.M. to 1 A.M. EDT. If you desire to operate W1AW, be sure to bring a copy of your license with you. W1AW is available for operation by visitors between 1 and 4 P.M. Monday through Friday.

In a communications emergency, monitor W1AW for special bulletins as follows: voice on the hour, RTTY at 15 minutes past the hour, and cw on the half hour.

W1AW will be closed on September 5.

Station staff: Chief Operator/Asst. Communications Mgr. C. R. Bender, W1WPR; Charles Chadwick, K8AXL; Bruce Kampe, WA1POI.

Reprinted with permission from A.R.R.L. - August, 83 QST



Note:

THE POLICE REQUEST that we PARK
ON ELDORADO BLVD.!!
 "DUE TO FIRE REGS."

Remember: General Mtg: 3⁰⁰ PM
 Charter Members: 2⁰⁰ PM

See you there!

